David Evans

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EDUCATION

University of Wisconsin-Madison

Master of Science, Soil Science; GPA: 3.719 — August 2013
Concentration: spatial analysis and pedology

Bachelor of Science, Soil Science; GPA: 3.714 — May 2011
Concentration: field crop production

SKILL SET

- Statistical analysis and inference
- GIS theory and practice
- Web Development
- Communication of results and methods in written and oral forms

Techniques and software proficiencies:

- Django Framework
- VB.NET
- R and Python programming languages
- ArcGIS, QGIS, and SAGA-GIS
- Git version control software
- SWAT and ArcSWAT watershed modeling software
- GDAL/OGR spatial data libraries

RELEVANT EXPERIENCE

IS Data Services – Department of Natural Resources — **July 2014 – Present**

- Assemble and organize spatial and non-spatial data for large watershed modeling project.
- Carryout statistical analysis for the regionalization of hydrologic model parameters.
- Assist with the development of a spatial analysis tool for predicting erosion and improving water quality.

Assistant GIS Technician – Natural Resources Conservation Service — **January 2014 – June 2014**

- Assist in the maintenance of wetland determinations database.
- Conduct orthorectification and wetland map creation.

GIS Analyst – UW-Madison Soil Science, Nutrient Cycling and Agroecosystems Lab — **October 2013 – June 2014**

- Facilitate the investigation of fine-scale soil variation in a fertilizer management study.
- Conduct spatial analysis of interaction of nitrogen rate and soil property in relation to crop yield.

Project Coordinator – UW-Madison Soil Science, F.D. Hole Soils Lab — **August 2013 – June 2014**

- Coordinate the progress and maintenance of map display and development for Wisconsin branch of the ISEE Project.
- Develop maps of landscapes and soil properties for educational purposes.
- Organize and maintain database of geospatial information.

Research Assistant – UW-Madison Soil Science, F.D. Hole Soils Lab — **Sept 2011 – June 2013**

- Used digital soil mapping techniques to produce quantitative maps of soil properties.
- Described and classified soils in the field according to US Soil Taxonomy.
- Investigated soil-landscape relationships through statistical and conceptual models.

Investigator – UW-Madison Soil Science, Bioretention Pond Permeability Project — **Fall 2010 – Spring 2011**

- Investigated causes for the failure of a stormwater retention basin with a team of professors, graduate and undergraduate students.
- Conducted laboratory analysis to test hypotheses regarding the soil properties contributing to basin failure.
- Communicated potential solutions to hydrologists and urban planners.

SELECTED PRESENTATIONS & PUBLICATIONS

Ruesch, A. S., A. Mynsberge, and D. M. Evans. "Introduction to Python in ArcGIS." 18 February, 2015. A workshop given at the Wisconsin Land Information Association in Green Bay, WI.

Evans, D. M. and A. E. Hartemink. "Digital soil mapping of a red clay subsoil covered by loess." 2014. Geoderma 230-231, 296-304.

Evans, D. M., K. Rudersdorf, G. Obear, S. Griffith, M.R. Naber, and P. Barak. "Saline and Sodic Soils in Wisconsin: The Sad Story of the Costco Infiltration Pond." 12 September, 2012. Presentation given to USGS Water Resources Meeting, Madison, WI.